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		First Named Inventor	RANSOM et al.	
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Shoot 1	of 5	Attorney Docket Number	M02B154	

				DOCUMENTS	
Examiner nitials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 (f Andwn)}			Figures Appear
	1	^{US-} 5 961 291	10-05-1999	Sakagami et al.	
	2	^{US-} 4 983 106 A	01-01-1991	Wright et al.	
	3	US- 4 983 107 A	01-08-1991	Steffens et al.	
	4	US- 4 294 402 A	10-13-1981	Vollmer	
	5	^{US-} 5 040 949	08-20-1991	Crinquette et al.	
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		FORE	GN PATENT DOCL	JMENTS		
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	6	WO 03/042542 A	05-22-2003	Leybold Vakuum		
	7	DE 198 20 523 A	11-11-1999	Frieden		
	8	GB 1 160 551 A	08-06-1969	Kealy		
	9	DE 23 05 502 A	03-15-1974	Baehr		
	10	DE 32 03 322 A	09-22-1983	Hilbers		
	11	DE 29 26 599 A	01-15-1981	Battelle Instit		

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Attorney Docket Number M02B154 Sheet 2 of 5 U. S. PATENT DOCUMENTS Pages, Columns, Lines, Where Cite No.1 Publication Date Name of Patentee or Examiner Document Number Relevant Passages or Relevant MM-DD-YYYY Applicant of Cited Document Initials* Figures Appear Number-Kind Code² (F known) US-US-US-US-USus-US-US-US-USus. us. us. US-HS. US US-

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Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T°
	12	DE 23 41 526 A	03-20-1975	Samson Appbau		
	13	EP 0 827 057 A	03-04-1998	Deutsch Zentr		
	14	GB 2 081 845 A	02-24-1982	Trucktonics Ltd		
	15	WO 01/33080 A1	05-10-2001	Alceru Schwarza		
	16	GB 2 347 643 A	09-13-2000	A-Z Formen-und		
	17	SU 1718759 A1	03-15-1992	Fialkov et al.		

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	18	DD 150 360 A	08-26-1981	Reso et al.		
	19	JP 2149795 A	06-08-1990	Hitachi Ltd		
	20	JP 9256975 A	09-30-1997	Hitachi Ltd		
	21	JP 59079093 A	05-08-1984	Hitachi Ltd		

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NON PATENT LITERATURE DOCUMENTS

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the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue

		number(s), publisher, city and/or cou	ntry where publish	ned.	
	22	PATENT ABSTRACTS OF JAPAN, vol. 008, no. October 31, 1984; JP 59 115492 A (Hitachi Seis		uly 3, 1984, abstract	
	PATENT ABSTRACTS OF JAPAN, vol 1995, no. 02, (March 31, 1995); JP 06 330875 A (Seiko Seiki Co Ltd), (11-29-1994), abstract				
	PATENT ABSTRACTS OF JAPAN, vol. 017, no. 544 (M-1489), September 30, 1993; JP 05 149287 A (Hitachi Ltd; others: 01), June 15, 1993, abstra			ne 15, 1993, abstract	
	25	PATENT ABSTRACTS OF JAPAN, vol. 1998, no. 02, January 30, 1998; JP 09 268993 A (Tochigi Fuji Ind Co Ltd), October 14, 1997, abstract			
	26	United Kingdom Search Report for Application No. GB 0223769.1; Date of search: November 18, 2003			
	27	28 United Kingdom Search Report for Application No. GB 0223769.1; Date of search: April 22, 2003 29 ALEKSANDR N. FIALKOV, EVGENIYA A. FIALKOVA, VLADIMIR G. KULENKO; Abstract of SU1718759 A, "Crystallizer-Cooler," March 15, 1992 ANNE RESO, HEIDI SCHMIDT, MANUEL A EGGERT, KERSTIN, JAEKEL, DIETER PROCKAT			
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	110.	number(s), publisher, city and/or country where published.	<u> </u>
	31	HITOSHI NISHIMURA, Abstract of JP 2149795 A, "Oilless Screw Compressor," Hitachi Ltd, June 8, 1990	
	32	HIROSHI OTA, HITOSHI NISHIMURA; Abstract of JP 9256975 A, "Installing Mechanism of Vibration Detecting Terminal of Rotor Bearing in Unlubricated Screw Compressor."	
		Hitachi Ltd, September 30, 1997	
	33	KATSUMI MATSUBARA, RIICHI UCHIDA; Abstract of JP 59079093 A, "No-Oiling Type Screw Compressor," Hitachi Ltd, May 8, 1984	
	34	PATENT ABSTRACTS OF JAPAN, vol. 2000, no. 03, March 30, 2003; Abstract of JP 11 336684 A (Hitachi Ltd), December 7, 1999; abstract	
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